

5. (Once Amended) A process as claimed in claim 1, wherein X^1 and X^2 represent a substituted or non-substituted bicyclic group with at least 5 ring atoms, of which one is a phosphorus atom.

8. (Once Amended) A process as claimed in claim 1, wherein component (C) of catalyst system contains a protonic acid with a pKa value > 1 in aqueous solution at 25°C or a salt thereof.

9. (Once Amended) A process as claimed in claim 1, where 1,3-butadiene is converted into methyl pentenoate and/or dimethyl adipate.


10. (Once Amended) A process to prepare caprolactam, Nylon 6, or Nylon 6,6 wherein a compound as prepared according to the process of claim 1, is used as an intermediate.

13. (Once Amended) Use of the catalyst system as claimed in claim 11, as a carbonylation catalyst.

Respectfully submitted,

DRENT, Eit and JAGER, Willem, Wabe

P.O. Box 2463
Houston, Texas 77252-2463


Attorney, Del S. Christensen
Reg. No. 33,482
(713) 241-3997 telephone
(713) 241-6617 facsimile